

## Claims

What is claimed is:

- 10044927-01103
- [c1] A method for generating a projected graph data structure, comprising:  
generating a request for the projected graph data structure using a variable usage specification;  
retrieving a server graph data structure using the request;  
generating a projected graph data structure representation using the request, the server graph data-structure, and a schema associated with the server graph data-structure; and  
instantiating the projected graph data-structure using the projected graph data-structure representation.
  - [c2] The method of claim 1, further comprising:  
synchronizing projected objects located on the client with distributed objects located on a server.
  - [c3] The method of claim 1, wherein the projected graph data structure is an object graph.
  - [c4] The method of claim 1, wherein the server graph data structure is an object graph.
  - [c5] The method of claim 1, wherein the projected graph data structure representation comprises a hash table.
  - [c6] The method of claim 1, wherein the projected graph data structure representation comprises an Extensible Mark-up Language document.
  - [c7] The method of claim 1, wherein the projected graph data structure representation comprises a serialized file.
  - [c8] The method of claim 1, wherein the variable usage specification comprises a list of required objects and object attributes.

- [c9] The method of claim 1, wherein the server graph data structure is located in a persistent data store.
- [c10] A method for generating a projected graph data-structure, comprising:  
generating a request for the projected graph data-structure using a usage variable specification;  
retrieving a server graph data-structure using the request;  
generating a projected graph data-structure representation using the request, the server graph data-structure, and a schema associated with the server graph data-structure;  
instantiating the projected graph data-structure using the projected graph data-structure representation; and  
synchronizing projected objects located on the client with distributed objects located on a server.
- [c11] A network system, comprising:  
a customer component that generates a request for a projected object graph;  
a service component that generates a service-side projected object graph representation ;  
means for generating the request for the projected graph data-structure using a usage variable specification;  
means for retrieving a server graph data-structure using the request;  
means for generating the projected graph data-structure representation using the request, the server graph data-structure, and a schema associated with the server graph data-structure; and  
means for instantiating the projected graph data-structure using the projected graph data-structure representation.
- [c12] The network system of claim 11, further comprising:  
synchronizing projected objects currently located on the client with distributed objects located on a server.

- 2017-04-26 10:44:52
- [c13] The network system of claim 11, wherein the projected graph data-structure is an object graph.
  - [c14] The network system of claim 11, wherein the server graph data-structure is an object graph.
  - [c15] The network system of claim 11, wherein the projected graph data-structure representation comprises a hash table.
  - [c16] The network system of claim 11, wherein the projected graph data-structure representation comprises an Extensible Mark-up Language document.
  - [c17] The network system of claim 11, wherein the projected graph data-structure representation comprises a serialize file.
  - [c18] The network system of claim 11, wherein the request comprises a variable usage specification.
  - [c19] The network system of claim 18, wherein the variable usage specification comprises a list of required objects and object attributes.
  - [c20] The network system of claim 11, wherein the server graph data-structure is located in a persistent data store.
  - [c21] The network system of claim 11, wherein the customer component and the service component communication over a network link.
  - [c22] An apparatus for generating a projected graph data-structure, comprising:
    - means for generating a request for the projected graph data-structure using a usage variable specification;
    - means for retrieving a server graph data-structure using the request;

means for generating a projected graph data-structure representation using the request, the server graph data-structure, and a schema associated with the server graph data-structure; and

means for instantiating the projected graph data-structure using the projected graph data-structure representation.

[c23] The apparatus of claim 22, further comprising:

means for synchronizing projected objects located on the client with distributed objects located on a server.

20110126-0110